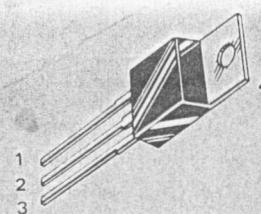


Motorola TO-220

PLASTIC POWER TRANSISTORS



For lead mounted applications or use
with heat sinks; power dissipation
of 40 to 100 watts at 25°C case.

STYLE 1:
PIN 1. BASE
2. COLLECTOR
3. Emitter
4. COLLECTOR

I _C (cont) Amps	V _{CEO(sus)} Volts	Resistive Switching				f _T MHz	P _D (Case) Watts	
		Device Type	h _{FE} Min/Max	I _C Amp	t _s μs	t _f μs	I _C Amp	
				Max	Max	Max		
0.5	350	MJE2360T MJE2361T	15 min 40 min	0.1 0.1				10 typ 10 typ
1	40	TIP29	15/75	1	0.6 typ	0.3 typ	1	3
	60	TIP29A	15/75	1	0.6 typ	0.3 typ	1	3
	80	TIP29B	15/75	1	0.6 typ	0.3 typ	1	3
	100	TIP29C	15/75	1	0.6 typ	0.3 typ	1	3
	250	TIP47	30/150	0.3	2 typ	0.18 typ	0.3	10
	300	TIP48	30/150	0.3	2 typ	0.18 typ	0.3	10
	350	TIP49	30/150	0.3	2 typ	0.18 typ	0.3	10
	400	TIP50	30/150	0.3	2 typ	0.18 typ	0.3	10
2	60	TIP110‡	500 min	2	1.7 typ	1.3 typ	2	25**
	80	TIP111‡	500 min	2	1.7 typ	1.3 typ	2	25**
	100	TIP112‡	500 min	2	1.7 typ	1.3 typ	2	25**
3	40	TIP31	TIP32	25 min	1	0.6 typ	0.3 typ	1
	60	TIP31A	TIP32A	25 min	1	0.6 typ	0.3 typ	1
	75	MJE1909		20/150	0.5			100
	80	TIP31B	TIP32B	25 min	1	0.6 typ	0.3 typ	1
	100	TIP31C	TIP32C	25 min	1	0.6 typ	0.3 typ	1
4	45	2N6121	2N6124	25/100	1.5	0.4 typ	0.3 typ	1.5
	60	2N6122	2N6125	25/100	1.5	0.4 typ	0.3 typ	1.5
	80	2N6123	2N6126	20/80	1.5	0.4 typ	0.3 typ	1.5
	300			6/30	3	3	0.7	3
	400			6/30	3	3	0.7	3
5	60	TIP120‡	TIP125‡	1k min	3	1.5 typ	1.5 typ	3
	80	TIP121‡	TIP126‡	1k min	3	1.5 typ	1.5 typ	3
	100	TIP122‡	TIP127‡	1k min	3	1.5 typ	1.5 typ	4
	250	MJE51T		5 min	5	2 typ†		2.5
		2N6497#		10/75	2.5	1.8	0.8	2.5
	300	MJE52T		5 min	5	2 typ†		2.5
		2N6498#		10/75	2.5	1.8	0.8	2.5
	350	MJE53T		5 min	5	2 typ†		2.5
		2N6499#		10/75	2.5	1.8	0.8	5
6	40	TIP41	TIP42	15/75	3	0.4 typ	0.15 typ	3
	60	TIP41A	TIP42A	15/75	3	0.4 typ	0.15 typ	3
	80	TIP41B	TIP42B	15/75	3	0.4 typ	0.15 typ	3
	100	TIP41C	TIP42C	15/75	3	0.4 typ	0.15 typ	3
7	30	2N6288	2N6111	30/150	3	0.4 typ	0.15 typ	3
	50	2N6290	2N6109	30/150	2.5	0.4 typ	0.15 typ	3
	70	2N6292	2N6107	30/150	3	0.4 typ	0.15 typ	3
8	40	2N6386‡		1k/20k	3			20**
	60	2N6043‡	2N6040‡	1k/10k	4	1.5 typ	1.5 typ	3
		TIP100‡	TIP105‡	1k/20k	3	1.5 typ	1.5 typ	3
	80	2N6044‡	2N6041‡	1k/10k	4	1.5 typ	1.5 typ	3
	100	2N6045‡	2N6042‡	1k/10k	3	1.5 typ	1.5 typ	3
	120	●MJE15028	●MJE15029	40 min	3			30
	150	●MJE15030	●MJE15031	40 min	3			30
	300			6/30	5	3	0.7	5
	400			6/30	5	3	0.7	5
								4
10	60	MJE2801T	MJE2901T	25/100	3			75
		MJE3055T	MJE2955T	20/70	4			75
		2N6387‡		1k/20k	5			20**
	80	2N6388‡		1k/20k	5			20**
		●D44H10	●D45H10	20 min	4			50 typ
		●D44H11	●D45H11	40 min	4			50 typ
12	300			6/30	8	3	0.7	8
	400			6/30	8	3	0.7	8
15	40	2N6486	2N6489	20/150	5	0.6 typ	0.3 typ	5
	60	2N6487	2N6490	20/150	5	0.6 typ	0.3 typ	5
	80	2N6488	2N6491	20/150	5	0.6 typ	0.3 typ	5

● New Device ‡ Darlington # Switchmode Device † t_{off} ** h_{fe} at 1 MHz